

RECEIVED MAR 29 1999



March 23, 1999

WASHINGTON STATE DEPARTMENT OF
Natural Resources

JENNIFER M. BELCHER
Commissioner of Public Lands

Michael McNabb
Jones & Stokes Associates Inc
2820 Northup Way - Suite 100
Bellevue WA 98004-1419

**SUBJECT: US COE Restoration Plan Development for Green/Duwamish River Basin,
Pierce and King Counties (T19-21N R5-11E; T22-24N R4-5E)**

We've searched the Natural Heritage Information System for information on rare plants, high quality wetland ecosystems and high quality terrestrial ecosystems in the vicinity of your project. A summary of this information, and corresponding materials, are enclosed. In your planning, please consider protection of these significant natural features. Please contact us for consultation on projects that may have an effect on these rare species or high-quality ecosystems.

The information provided by the Washington Natural Heritage Program is based solely on existing information in the database. In the absence of field inventories, we cannot state whether or not a given site contains high quality ecosystems or rare species; there may be significant natural features in your study area of which we are not aware. These data are being provided to you for informational and planning purposes only - the Natural Heritage Program has no regulatory authority.

We have begun to add information to our database on selected groups of animals of conservation concern, such as freshwater mussels, butterflies, salamanders, and bats. However, the authority for protection of animal species in Washington rests with the Department of Fish and Wildlife. To ensure that you receive information on all animal species of concern, please contact Priority Habitats and Species, Washington Department of Fish and Wildlife, 600 Capitol Way N, Olympia, WA 98501-1091, or by phone (360) 902-2543.

If you have any questions, please do not hesitate to call me at (360) 902-1667.

Sincerely,

Sandy Swope Moody, Environmental Coordinator
Washington Natural Heritage Program

Enclosures

WASHINGTON NATURAL HERITAGE INFORMATION SYSTEM
 ENDANGERED, THREATENED AND SENSITIVE PLANTS
 HIGH-QUALITY TERRESTRIAL AND WETLAND ECOSYSTEMS
 FOR UPPER/MIDDLE GREEN RIVER BASIN

Data current as of 17 MAR 1999 Page 1 of 2

Township, Range, and Section	Scientific Name Common Name	State Status	Federal Status
T19N R05E S09 SE	LYCOPODIELLA INUNDATA (BOG CLUBMOSS)	S	
T19N R10E S25 SWOFSE	BOTRYCHUM MINGANENSE (VICTORIN'S GRAPE-FERN)	R2	
T20N R07E S21 NW	LOW ELEVATION SPHAGNUM BOG PTN (LOW ELEVATION SPHAGNUM BOG PTN)		
T20N R07E S21 NW	RHYNCHOSPORA ALBA - (VACCINIUM OXYCOCCUS) / SPHAGNUM SPP. HERBACEOUS VEGETATION (BEAKRUSH - (BOG CRANBERRY) / SPHAGNUM SPP.)		
T20N R07E S21 NW	TSUGA HETEROPHYLLA - (THUJA PLICATA) / LEDUM GROENLANDICUM / SPHAGNUM SPP. WOODLAND (WESTERN HEMLOCK - (WESTERN REDCEDAR) / BOG LABRADOR-TEA / SPHAGNUM SPP.)		
T20N R07E S28 N20FN2	LOW ELEVATION FRESHWATER WETLAND PTN		
T20N R07E S21 SEOWSW	(LOW ELEVATION FRESHWATER WETLAND PTN)		
T20N R07E S28 N20FN2	SPIRAEA DOUGLASII SHRUBLAND		
T20N R07E S21 SEOWSW	(DOUGLAS' SPIREA)		
T20N R07E S28 N20FN2	TYPHA LATIFOLIA WESTERN HERBACEOUS VEGETATION		
T20N R07E S21 SEOWSW	(BROAD-LEAF CATTAIL)		
T20N R07E S31 NWOWSW	TSUGA HETEROPHYLLA - (THUJA PLICATA) /		
T20N R06E S36 SE	OPLOPANAX HORRIDUS / POLYSTICHUM MUNITUM FOREST (WESTERN HEMLOCK - (WESTERN REDCEDAR) / DEVIL'S- CLUB / SWORDFERN)		
T20N R07E S31 SW	PSEUDOTSUGA MENZIESII - TSUGA HETEROPHYLLA /		
T20N R06E S36 SE	POLYSTICHUM MUNITUM FOREST (DOUGLAS-FIR - WESTERN HEMLOCK / SWORDFERN)		
T21N R06E S10 SEOWNW	HYDROCOTYLE RANUNCULOIDES (FLOATING WATER PENNYWORT)	R1	

WASHINGTON NATURAL HERITAGE INFORMATION SYSTEM
 ENDANGERED, THREATENED AND SENSITIVE PLANTS
 HIGH-QUALITY TERRESTRIAL AND WETLAND ECOSYSTEMS
 FOR UPPER/MIDDLE GREEN RIVER BASIN

Data current as of 17 MAR 1999 Page 2 of 2

Township, Range, and Section	Scientific Name Common Name	State Status	Federal Status
T21N R06E S22 SEOFNE	FORESTED SPHAGNUM BOG PTN		
T21N R06E S23 NWOFNW	(FORESTED SPHAGNUM BOG PTN)		
T21N R06E S22 SEOFNE	LOW ELEVATION RIPARIAN WETLAND PTN		
T21N R06E S23 NWOFNW	(LOW ELEVATION RIPARIAN WETLAND PTN)		
T21N R06E S22 SEOFNE	ALNUS RUBRA / RUBUS SPECTABILIS FOREST		
T21N R06E S23 NWOFNW	(RED ALDER / SALMONBERRY)		
T21N R06E S22 SEOFNE	CORNUS SERICEA - SALIX (HOOKERIANA, SITCHENSIS)		
T21N R06E S23 NWOFNW	SHRUBLAND (RED-OSIER DOGWOOD - HOOKER'S, SITKA WILLOW)		
T21N R06E S22 SEOFNE	TSUGA HETEROPHYLLA - (THUJA PLICATA) / LEDUM		
T21N R06E S23 NWOFNW	GROENLANDICUM / SPHAGNUM SPP. WOODLAND (WESTERN HEMLOCK - (WESTERN REDCEDAR) / BOG LABRADOR-TEA / SPHAGNUM SPP.)		
T21N R06E S22 SEOFNE	TSUGA HETEROPHYLLA - (THUJA PLICATA) / SPHAGNUM		
T21N R06E S23 NWOFNW	SPP. FOREST (WESTERN HEMLOCK - (WESTERN REDCEDAR) / SPHAGNUM SPP.)		

17 Records Processed

WASHINGTON NATURAL HERITAGE INFORMATION SYSTEM
 ENDANGERED, THREATENED AND SENSITIVE PLANTS
 AND SELECT RARE ANIMAL SPECIES
 HIGH-QUALITY TERRESTRIAL AND WETLAND ECOSYSTEMS
 FOR THE LOWER GREEN/DUWAMISH RIVER BASIN

Data current as of 17 MAR 1999

Page 1 of 1

Township, Range, and Section	Scientific Name Common Name	State Status	Federal Status
T22N R05E S22	MARGARITIFERA FALCATA (WESTERN PEARLSHELL)		
T23N R05E S25 SE	FORESTED SPHAGNUM BOG PTN (FORESTED SPHAGNUM BOG PTN)		
T23N R05E S25 SE	TSUGA HETEROPHYLLA - (THUJA PLICATA) / SPHAGNUM SPP FOREST (WESTERN HEMLOCK - (WESTERN REDCEDAR) / SPHAGNUM SPP.)		
T24N R04E S23 E2 T24N R04E S14 SE	PSEUDOTSUGA MENZIESII - TSUGA HETEROPHYLLA / GAULTHERIA SHALLON / POLYSTICHUM MUNITUM FOREST (DOUGLAS-FIR - WESTERN HEMLOCK / SALAL / SWORDFERN)		

4 Records Processed

WASHINGTON NATURAL HERITAGE INFORMATION SYSTEM
Rare Animal and Vascular Plant Species - Definitions apply to plants and animals unless otherwise stated.

Federal Status definitions:

LE = Listed Endangered: Any taxon that is in danger of extinction throughout all or a significant portion of its range and that has been formally listed as such in the Federal Register under the Federal Endangered Species Act.

LT = Listed Threatened: Any taxon that is likely to become endangered within the foreseeable future throughout all or a significant portion of its range and that has been formally listed as such in the Federal Register under the Federal Endangered Species Act.

PE = Proposed Endangered: Any taxon that is in danger of extinction throughout all or a significant portion of its range and that has been proposed for listing as such in the Federal Register under the Federal Endangered Species Act.

PT = Proposed Threatened: Any taxon that is likely to become endangered within the foreseeable future throughout all or a significant portion of its range and that has been proposed for listing as such in the Federal Register under the Federal Endangered Species Act.

C = Candidate species: Taxa for which current information indicates the probable appropriateness of listing as Endangered or Threatened and that has been published in the Federal Register as a candidate for listing under the Federal Endangered Species Act.

SC = Species of Concern: Species whose conservation standing is of concern but for which status information is still needed. Species of concern lists are not published in the Federal Register.

Animal:

NL = Not Listed: Used for populations or subspecies within a taxon that are not federally listed, when other populations or subspecies of that same taxon are listed.

State Status definitions:

E = Endangered: Any taxon in danger of becoming extinct or extirpated from Washington within the foreseeable future if factors contributing to its decline continue. Populations of these taxa are at critically low levels or their habitats have been degraded or depleted to a significant degree.

T = Threatened: Any taxon likely to become Endangered in Washington within the foreseeable future if factors contributing to its population decline or habitat degradation or loss continue.

S = Sensitive: Any taxon that is vulnerable or declining and could become Endangered or Threatened in the state without active management or removal of threats.

Animal:

C = Candidate: Taxa under review for listing.

M = Monitor: Taxa of potential concern.

NL = Not Listed: Used for populations or subspecies within a taxon that have no state status, when other populations or subspecies within that same taxon are listed.

Plant:

X = Possibly Extinct or Extirpated from Washington: Based on recent field searches, a number of plant taxa are considered to be possibly extinct or extirpated from Washington. Taxa in this group are all high priorities for field investigations. If found, they will be assigned one of the above status categories.

R = Review: Taxa of potential concern, but for which no status has yet been assigned.

Group 1 = Taxa in need of additional field work before a status can be assigned.

Group 2 = Taxa with unresolved taxonomic questions.

W = Watch: Taxa more abundant and/or less threatened in Washington than previously assumed.

Washington Natural Heritage Information System
Endangered, Threatened, and Sensitive Vascular Plants of Washington
January 1999

King County
Page 1 of 1

Scientific Name	Common Name	State Status	Federal Status*	Historic Record**
Arenaria paludicola	Swamp sandwort	Pos Extirpated	LE	H
Aster curtus	White-top aster	Sensitive	SC	
Botrychium lanceolatum	Lance-leaved grape-fern	Sensitive		
Botrychium lunaria	Moonwort	Sensitive		
Botrychium minganense	Victorin's grape-fern	Review		
Botrychium pedunculosum	Stalked moonwort	Sensitive	SC	
Botrychium pinnatum	St. John's moonwort	Sensitive		
Campanula lasiocarpa	Alaska harebell	Sensitive		
Carex buxbaumii	Buxbaum's sedge	Sensitive		
Carex comosa	Bristly sedge	Sensitive		
Carex pauciflora	Few-flowered sedge	Sensitive		
Carex saxatilis var major	Russet sedge	Sensitive		
Carex stylosa	Long-styled sedge	Sensitive		
Cassiope lycopodioides	Clubmoss cassiope	Sensitive		
Castilleja levisecta	Golden indian-paintbrush	Endangered	LT	H
Cimicifuga elata	Tall bugbane	Threatened	SC	H
Fritillaria camschatcensis	Black lily	Sensitive		
Galium kamtschaticum	Boreal bedstraw	Sensitive		
Hydrocotyle ranunculoides	Floating water pennywort	Review		
Hypericum majus	Canadian st. John's-wort	Sensitive		H
Lobelia dortmanna	Water lobelia	Threatened		
Lycopodiella inundata	Bog clubmoss	Sensitive		H
Lycopodium dendroideum	Tree-like clubmoss	Sensitive		
Platanthera chorisiana	Choris' bog-orchid	Threatened		
Platanthera obtusata	Small northern bog-orchid	Sensitive		
Utricularia intermedia	Flat-leaved bladderwort	Sensitive		

* LE = Listed Endangered, LT = Listed Threatened, PE = Proposed Endangered, PT = Proposed Threatened,
C = Candidate for listing, SC = Species of Concern (an unofficial status)
** H = Known only from historic record

Washington Natural Heritage Information System
Endangered, Threatened, and Sensitive Vascular Plants of Washington
January 1999

Pierce County
Page 1 of 1

Scientific Name	Common Name	State Status	Federal Status*	Historic Record**
Agoseris elata	Tall agoseris	Sensitive		H
Aster borealis	Rush aster	Threatened		
Aster curtus	White-top aster	Sensitive		
Botrychium ascendens	Triangular-lobed moonwort	Sensitive	SC	
Botrychium lanceolatum	Lance-leaved grape-fern	Sensitive	SC	
Botrychium lunaria	Moonwort	Sensitive		
Botrychium manganense	Victorin's grape-fern	Review		
Botrychium pinnatum	St. John's moonwort	Sensitive		
Botrychium simplex	Little grape-fern	Sensitive		
Carex comosa	Bristly sedge	Sensitive		
Castilleja cryptantha	Obscure indian-paintbrush	Sensitive	SC	
Castilleja levisecta	Golden indian-paintbrush	Endangered	LT	
Chaenactis thompsonii	Thompson's chaenactis	Sensitive		H
Cimicifuga elata	Tall bugbane	Threatened	SC	H
Cypripedium fasciculatum	Clustered lady's-slipper	Threatened	SC	
Erythronium revolutum	Pink fawn-lily	Sensitive		H
Githopsis specularioides	Common blue-cup	Sensitive		H
Howellia aquatilis	Howellia	Threatened	LT	
Hydrocotyle ranunculoides	Floating water pennywort	Review		
Lathyrus torreyi	Torrey's peavine	Threatened	SC	
Luzula arcuata	Curved woodrush	Sensitive		H
Lycopodiella inundata	Bog clubmoss	Sensitive		
Microseris borealis	Northern microseris	Sensitive		H
Montia diffusa	Branching montia	Sensitive		H
Pedicularis rainierensis	Mt. rainier lousewort	Sensitive		
Polystichum californicum	California sword-fern	Sensitive		
Ranunculus populago	Mountain buttercup	Sensitive		
Saxifraga rivularis	Pygmy saxifrage	Sensitive		H
Trillium parviflorum	Small-flowered trillium	Sensitive		
Woodwardia fimbriata	Chain-fern	Sensitive		

* LE = Listed Endangered, LT = Listed Threatened, PE = Proposed Endangered, PT = Proposed Threatened,
C = Candidate for listing, SC = Species of Concern (an unofficial status)
** H = Known only from historic record



State of Washington
DEPARTMENT OF FISH AND WILDLIFE

Mailing Address: 600 Capitol Way N, Olympia, WA 98501-1091 - (360) 902-2200, TDD (360) 902-2207
Main Office Location: Natural Resources Building, 1111 Washington Street SE, Olympia, WA

Date: *April 2, 1999*

Dear Habitats and Species Requester:

Enclosed are the habitats and species products you requested from the Washington Department of Fish and Wildlife (WDFW). This package may also contain documentation to help you understand and use these products.

These products only include information that WDFW maintains in a computer database. They are not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife, nor are they designed to provide you with guidance on interpreting this information and determining how to proceed in consideration of fish and wildlife. These products only document the location of important fish and wildlife resources to the best of our knowledge. It is important to note that habitats or species may occur on the ground in areas not currently known to WDFW biologists, or in areas for which comprehensive surveys have not been conducted. Site-specific surveys are frequently necessary to rule out the presence of priority habitats or species.

Your project may require further field inspection or you may need to contact our field biologists or others in WDFW to assist you in interpreting and applying this information. Generally, for assistance on a specific project, you should contact the WDFW Habitat Program Manager for your county and ask for the area habitat biologist for your project area. Refer to the enclosed directory for those contacts.

Please note that sections potentially impacted by spotted owl management concerns are displayed on the 1:24,000 scale standard map products. If specific details on spotted owl site centers are required they must be requested separately.

These products are designed for users external to the forest practice permit process and as such does not reflect all the information pertinent to forest practice review. The Forest Practice Rules adopted August 22, 1997 by the Forest Practice Board and administered by the Washington Department of Natural Resources require forest practice applications to be screened against marbled murrelet detection areas and detection sections. Marbled murrelet detection locations are included in the standard priority habitats and species products, but the detection areas and detection sections are not included. If your project is affected by Forest Practice Regulations, you should specially request murrelet detection areas.

WDFW updates this information as additional data become available. Because fish and wildlife species are mobile and because habitats and species information changes, project reviews for fish and wildlife should not rest solely on mapped information. Instead, they should also consider new information gathered from current field investigations. Remember, habitats and species information can only show that a species or habitat type is present, they cannot show that a species or habitat type is not present. These products should not be used for future projects. Please obtain updates rather than use outdated information.

July 1998

WASHINGTON DEPARTMENT OF FISH AND WILDLIFE REGIONAL HABITAT PROGRAM MANAGER CONTACTS

For assistance with Priority Habitats and Species Information contact a regional habitat program manger and they will direct your questions to a biologist.

County project is in...

Contact...

Asotin, Columbia, Ferry, Garfield Lincoln,
Pend Oreille, Spokane, Stevens, Walla Walla,
Whitman

John Andrews
8702 North Division Street
Spokane, WA 99218-1199
Phone: (509) 456-4082

Adams, Chelan, Douglas, Grant, Okanogan

Tracy Lloyd
1550 Alder Street NW
Ephrata, WA 98823-9699
Phone: (509) 754-4624

Benton, Franklin, Kittitas, Yakima

Ted Clausing
1701 24th Avenue
Yakima, WA 98902-5720
Phone: (509) 575-2740

Island, King, San Juan, Skagit, Snohomish,
Whatcom

Ted Muller
16018 Mill Creek Blvd.
Mill Creek, WA 98012-1296
Phone: (206) 775-1311

Clark, Cowlitz, Klickitat, Lewis, Skamania,
Wahkiakum

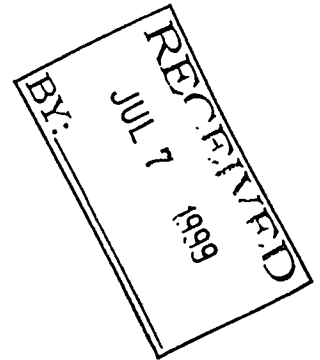
Rich Costello
2108 Grand Blvd.
Vancouver, WA 98661
Phone: (360) 696-6211

Clallam, Grays Harbor, Jefferson, Kitsap, Mason,
Pacific, Pierce, Thurston

Steve Keller
48 Devonshire Road
Montesano, WA 98563-9618
Phone: (360) 249-4628



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
HABITAT PROGRAM/OLYMPIA FIELD OFFICE
510 Desmond Drive SE/Suite 103
LACEY, WASHINGTON 98503
June 22, 1999



Patrick Cagney
Department of the Army
Seattle District, Corps of Engineers
P.O. Box 3755
Seattle, Washington 98124-2255

Re: Species List Request for Green/Duwamish Ecosystem Restoration Plan

Dear Mr.Cagney:

The National Marine Fisheries Service (NMFS) has received your February 26, 1999 letter requesting a list of threatened and endangered species that could occur in the vicinity of the project area. Enclosed is a statewide list of those anadromous fish species that are listed as threatened or endangered, those that are proposed for listing, and those that are candidates for listing under the Endangered Species Act (ESA). This inventory only includes those anadromous species under NMFS' jurisdiction. The U.S. Fish and Wildlife Service should be consulted regarding the presence of species falling under their jurisdiction.

Please note that our agency does not have site specific information for listed species, which may be available in some areas from local state or tribal biologists. To expedite future species list requests, the NMFS intends to make the attached tables available at a convenient website: www.nwr.noaa.gov.

Presently, Puget Sound chinook (*O. tshawytscha*), is listed as threatened and may occur near the project area. Proposed critical habitat for chinook may include the project area (March 9, 1998; 63 FR 11482). Puget Sound coho salmon (*O. kisutch*) is a candidate species for listing and may also occur near the project area.

Thank you for your inquiry for information pertaining to federally listed threatened and endangered species. Should you require additional information, please contact DeeAnn Kirkpatrick at (206) 526-4452.

Sincerely,

Steven W. Landino
Washington State Habitat Branch Chief

Enclosure



ESA STATUS - WASHINGTON STATE ANADROMOUS SALMONIDS - APRIL 1999

Species	(E=endangered, T=threatened, Date is for FR publication)		
	Listed	Proposed	Candidate
Coho (Oncorhynchus kisutch)	None	None	1) Puget Snd/St. of Georgia (7/95) 2) SW W/L. Col. R. (7/95)
Steelhead (O. mykiss)	1) Upper Col. R. (E - 8/97) 2) Snake R. (T - 8/97) 3) Lower Col. R. (T - 3/98) 4) Middle Col. R. (T - 3/99)	None	None
Chum (O. keta)	1) Hood Canal Summer (T-3/99) 2) Columbia River (T-3/99)	None	None
Chinook (O. tshawytscha)	1) Snake R. fall (T - 4/92) 2) Snake R. spg/snmr (T - 4/92) 3) Upper Col. R. Spring (E - 3/99) 4) Puget Sound (T - 3/99) 5) Lower Col. R. (T-3/99)	None	None
Sockeye (O. nerka)	1) Snake R. (E - 11/91) 2) Ozette Lake (T - 3/99)	None	None
Pink (O. gorbuscha)	None	None	None
Sea-run Cutthroat (O. clarki clarki)	None	1) SW Wash/Col River (T-4/99)	None

NOTE: Listing rules announced on 3/24-25/99 will become effective 60 days after Federal Register publishing.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

North Pacific Coast Ecoregion

Western Washington Office

510 Desmond Drive SE, Suite 102

Lacey, Washington 98503

Phone: (360) 753-9440 Fax: (360) 753-9518

Dear Species List Requester:

You have requested a list of listed and proposed threatened and endangered species, candidate species, and species of concern (Attachment A) that may be present within the area of your proposed project. This response fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act of 1973, as amended (Act). We have also enclosed a copy of the requirements for Federal agency compliance under the Act (Attachment B).

Should the Federal agency determine that a listed species is likely to be affected (adversely or beneficially) by the project, you should request section 7 consultation through this office. If the Federal agency determines that the proposed action is "not likely to adversely affect" a listed species, you should request Service concurrence with that determination through the informal consultation process. Even if there is a "no effect" situation, we would appreciate receiving a copy for our information.

Both listed and proposed species may occur in the vicinity of the project. Therefore, pursuant to the regulations implementing the Act, impacts to both listed and proposed species must be considered by the Federal agency in a biological assessment (BA) (see Attachment B for more information on preparing BAs). Formal conference with the Service is required by the Act if the Federal agency determines that the proposed action is likely to jeopardize the continued existence of a proposed species, or result in the destruction or adverse modification of proposed critical habitat. The results of the BA will determine if conferencing is required. If the species is ultimately listed, your agency may be required to reinitiate consultation.

Candidate species are included simply as advance notice to Federal agencies of species which may be proposed and listed in the future. Species of concern are those species whose conservation standing is of concern to the Service, but for which further status information is still needed. Conservation measures for species of concern are voluntary, but recommended. Protection provided to these species now may preclude possible listing in the future.


There may be other Federally listed species that may occur in the vicinity of your project which are under the jurisdiction of the National Marine Fisheries Service (NMFS). Please contact NMFS at (360) 753-9530 to request a species list.

In addition, please be advised that Federal and state regulations may require permits in areas where

wetlands are identified. You should contact the Seattle District of the U.S. Army Corps of Engineers for Federal permit requirements and the Washington State Department of Ecology for State permit requirements.

Your interest in endangered species is appreciated. If you have additional questions regarding your responsibilities under the Act, please contact Bobbi Barrera at (360) 753-6048, or Yvonne Dettlaff (360) 753-9582.

Sincerely,



Gerry A. Jackson, Manager
Western Washington Office

yd
Enclosure(s)

c:COE
WDFW Region 4

**LISTED AND PROPOSED ENDANGERED AND THREATENED SPECIES,
CANDIDATE SPECIES AND SPECIES OF CONCERN
WHICH MAY OCCUR WITHIN THE
VICINITY OF THE PROPOSED INVESTIGATION OF GREEN/DUWAMISH RIVER
BASIN IN KING COUNTY, WASHINGTON**

(T19-21N R05-11E; T22-24N R04-05)

FWS REF. #: 1-3-00-SP-0320

LISTED

Bald eagle (*Haliaeetus leucocephalus*) - There are fifteen bald eagle nesting territories located in the vicinity of the project at T19N R05E S07,34; T21N R03E S01; T20N R05E S23; T21N R04E S06; T21N R05E S26; T21N R0E S10; T22N R05E S34; T23N R03E S24; T23N R04E S34; T24N R04E S12, 23; T24N R05E S06,16,30. Nesting activities occur from January 1 through August 15.

There is one bald eagle communal roost located in the vicinity of the project at T19N R05E S34.

Wintering bald eagles occur in the vicinity of the project. Wintering activities occur from October 31 through March 31.

Bull trout (*Salvelinus confluentus*) - occur in the vicinity of the project.

Gray wolf (*Canis lupus*) may occur in the vicinity of the project.

Marbled murrelet (*Brachyramphus marmoratus*) - occur in the vicinity of the project. Nesting activities occur from April 1 through September 15.

Northern spotted owl (*Strix occidentalis caurina*) - occur in the vicinity of the project. Nesting activities occur from March 1 through September 30.

Major concerns that should be addressed in your biological assessment of the project impacts to listed species are:

1. Level of use of the project area by listed species.
2. Effect of the project on listed species' primary food stocks, prey species, and foraging areas in all areas influenced by the project.
3. Impacts from project construction (i.e., habitat loss, increased noise levels, increased human activity) which may result in disturbance to listed species and/or their avoidance of the project area

ATTACHMENT A (Continued)

Arenaria paludicola (march sandwort)

Major concerns that should be addressed in a biological assessment of this listed plant species are:

1. Distribution of taxon in project vicinity.
2. Disturbance (trampling, uprooting, collecting, etc.) of individual plants and loss of habitat.
3. Changes in hydrology where taxon is found.

DESIGNATED

Critical habitat for the marbled murrelet has been designated in the vicinity of the project.
Critical habitat for the northern spotted owl has been designated in the vicinity of the project.

PROPOSED

Canada lynx (*Lynx canadensis*) may occur in the vicinity of the project.

CANDIDATE

Oregon spotted frog (*Rana pretiosa*)
Mardon skipper (*Polites mardon*)

SPECIES OF CONCERN

California wolverine (*Gulo gulo luteus*)
Cascades frog (*Rana cascadae*)
Larch Mountain salamander (*Plethodon larselli*)
Long-eared myotis (*Myotis evotis*)
Long-legged myotis (*Myotis volans*)
Northern goshawk (*Accipiter gentilis*)
Northwestern pond turtle (*Clemmys marmorata marmorata*)
Olive-sided flycatcher (*Contopus cooperi*)
Pacific fisher (*Martes pennanti pacifica*)
Pacific lamprey (*Lampetra tridentata*)
Pacific Townsend's big-eared bat (*Corynorhinus townsendii townsendii*)

ATTACHMENT A (Continued)

River lamprey (*Lampetra ayresi*)

Tailed frog (*Ascaphus truei*)

Van Dyke's salamander (*Plethodon vandykei*)

Western toad (*Bufo boreas*)

ATTACHMENT B

FEDERAL AGENCIES' RESPONSIBILITIES UNDER SECTIONS 7(a) AND 7(c) OF THE ENDANGERED SPECIES ACT OF 1973, AS AMENDED

SECTION 7(a) - Consultation/Conference

- Requires:
1. Federal agencies to utilize their authorities to carry out programs to conserve endangered and threatened species;
 2. Consultation with FWS when a federal action may affect a listed endangered or threatened species to ensure that any action authorized, funded, or carried out by a federal agency is not likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of critical habitat. The process is initiated by the federal agency after it has determined if its action may affect (adversely or beneficially) a listed species; and
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To complete the BA, your agency or its designee should: (1) conduct an onsite inspection of the area to be affected by the proposal, which may include a detailed survey of the area to determine if the species is present and whether suitable habitat exists for either expanding the existing population or potential reintroduction of the species; (2) review literature and scientific data to determine species distribution, habitat needs, and other biological requirements; (3) interview experts including those within the FWS, National Marine Fisheries Service, state conservation department, universities, and others who may have data not yet published in scientific literature; (4) review and analyze the effects of the proposal on the species in terms of individuals and populations, including consideration of cumulative effects of the proposal on the species and its habitat; (5) analyze alternative actions that may provide conservation measures; and (6) prepare a report documenting the results, including a discussion of study methods used, any problems encountered, and other relevant information. Upon completion, the report should be forwarded to our Endangered Species Division, 510 Desmond Drive SE, Suite 102, Lacey, WA 98503-1273.

* "Construction project" means any major federal action which significantly affects the quality of the human environment (requiring an EIS), designed primarily to result in the building or erection of human-made structures such as dams, buildings, roads, pipelines, channels, and the like. This includes federal action such as permits, grants, licenses, or other forms of federal authorization or approval which may result in construction.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

North Pacific Coast Ecoregion
Western Washington Office
510 Desmond Drive SE, Suite 102
Lacey, Washington 98501
Phone: (360) 753-9440 Fax: (360) 753-9008

March 24, 1999

Cyrus M. McNeely
Chief, Environmental Resources Section
Department of the Army
Seattle District, Corps of Engineers
P.O. Box 3755
Seattle, WA 98124-2255

FWS Reference: 1-3-99-SP-0308

Dear Mr. McNeely:

This is in response to your letter of February 26, 1999, and received in this office on March 1, 1999. You have requested a list of listed and proposed threatened and endangered species, candidate species, and species of concern (Attachment A) that may be present within the area of the proposed Green/Duwamish River Basin in King County, Washington. This response fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act of 1973, as amended (Act). We have also enclosed a copy of the requirements for U.S. Army Corps of Engineers (COE) compliance under the Act (Attachment B).

Should the COE determine that a listed species is likely to be affected (adversely or beneficially) by the project, you should request section 7 consultation through this office. If the COE determines that the proposed action is "not likely to adversely affect" a listed species, you should request Service concurrence with that determination through the informal consultation process. Even if there is a "no effect" situation, we would appreciate receiving a copy for our information.

Both listed and proposed species may occur in the vicinity of the project. Therefore, pursuant to the regulations implementing the Act, impacts to both listed and proposed species must be considered by the COE in a Biological Assessment (BA) (see Attachment B for more information on preparing BAs). Formal conference with the Service is required if the COE determines that the proposed action is likely to jeopardize the continued existence of a proposed species, or result in the destruction or adverse modification of proposed critical habitat. The results of the BA will determine if conferencing is required. If the species is ultimately listed, your agency may be required to reinstate consultation.

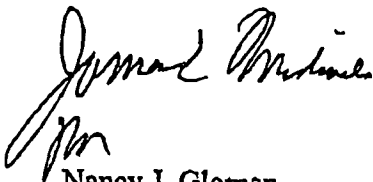
Candidate species are included simply as advance notice to Federal agencies of species which may be proposed and listed in the future. Species of concern are those species whose conservation standing is of concern to the Service, but for which further status information is still needed. Conservation measures for species of concern are voluntary, but recommended. Protection provided to these species now may preclude possible listing in the future.

There may be other Federally listed species that may occur in the vicinity of your project which are under the jurisdiction of the National Marine Fisheries Service (NMFS). Please contact NMFS at (360) 753-9530 to request a species list.

In addition, please be advised that state regulations may require permits in areas where wetlands are identified. You should contact the Washington State Department of Ecology for State permit requirements.

Your interest in endangered species is appreciated. If you have additional questions regarding your responsibilities under the Act, please contact Bobbi Barrera at (360) 753-6048, or John Grettenberger of this office, at the letterhead phone/address.

Sincerely,



Nancy J. Gloman
Acting Supervisor

BB/jko

Enclosures

SE/COE/1-3-99-SP-0308/King

c: WDFW, Region 4

WNHP, Olympia

COE

ATTACHMENT A

LISTED AND PROPOSED ENDANGERED AND THREATENED SPECIES, CANDIDATE SPECIES AND SPECIES OF CONCERN WHICH MAY OCCUR WITHIN THE VICINITY OF THE GREEN/DUWAMISH RIVER BASIN IN KING COUNTY, WASHINGTON (T19-21N R05-11E;T22-24N R04-05)

FWS REF. #: 1-3-99-SP-0308

LISTED

Bald eagle (*Haliaeetus leucocephalus*) - there are fifteen bald eagle nesting territories located in the vicinity of the project at T19N R05E S07;T20N R05E S23;T21N R03E S01;T21N R05E S26;T21N R06E S10;T22N R05E S34;T23N R03E S24;T23N R04E S34;T24N R04E S12,23;T24N R05E S05,19,30. Nesting activities occur from January 1 through August 15.

There is one bald eagle communal roost located in the vicinity of the project at T19N R05E S34.

Wintering bald eagles may occur in the vicinity of the project. Wintering activities occur from October 31 through March 31.

Gray wolf (*Canis lupus*) - may occur in the vicinity of the project.

Marbled murrelet (*Brachyramphus marmoratus*) - occur in the vicinity of the project. Nesting activities occur from April 1 through September 15.

Northern spotted owl (*Strix occidentalis caurina*) - occur in the vicinity of the project. Nesting activities occur from March 1 through September 30.

Peregrine falcon (*Falco peregrinus*) - there is one peregrine falcon eyree located in downtown Seattle.

Spring and fall migrant peregrine falcon may occur in the vicinity of the project.

Major concerns that should be addressed in your biological assessment of the project impacts to listed species are:

1. Level of use of the project area by listed species.
2. Effect of the project on listed species' primary food stocks, prey species, and foraging areas in all areas influenced by the project.

ATTACHMENT A (Continued)

3. Impacts from project construction (i.e., habitat loss, increased noise levels, increased human activity) which may result in disturbance to listed species and/or their avoidance of the project area.

Arenaria paludicola (marsh sandwort)

Major concerns that should be addressed in your Biological Assessment for this listed plant species are:

1. Distribution of taxon in project vicinity.
2. Disturbance (trampling, uprooting, collecting, etc.) of individual plants and loss of habitat.
3. Changes in hydrology where taxon is found.

DESIGNATED

Critical habitat for the marbled murrelet has been designated in the vicinity of the project.

Critical habitat for the northern spotted owl has been designated in the vicinity of the project.

PROPOSED

Bull trout (*Salvelinus confluentus*) - Coastal/Puget Sound population may occur in the vicinity of the project.

Canada lynx (*Lynx canadensis*)

CANDIDATE

The following candidate species may occur in the vicinity of the project:

Oregon spotted frog (*Rana pretiosa*)

SPECIES OF CONCERN

The following species of concern may occur in the vicinity of the project:

ATTACHMENT A (Continued)

California wolverine (*Gulo gulo luteus*)
Cascades frog (*Rana cascadae*)
Long-eared myotis (*Myotis evotis*)
Long-legged myotis (*Myotis volans*)
Mardon skipper (*Polites mardon*)
Northern goshawk (*Accipiter gentilis*)
Northwestern pond turtle (*Clemmys marmorata marmorata*)
Olive-sided flycatcher (*Contopus cooperi*)
Pacific fisher (*Martes pennanti pacifica*)
Pacific lamprey (*Lampetra tridentata*)
Pacific Townsend's big-eared bat (*Corynorhinus townsendii townsendii*)
River lamprey (*Lampetra ayresi*)
Tailed frog (*Ascaphus truei*)
Van Dyke's salamander (*Plethodon vandykei*)

ATTACHMENT B

FEDERAL AGENCIES' RESPONSIBILITIES UNDER SECTIONS 7(a) AND 7(c) OF THE ENDANGERED SPECIES ACT OF 1973, AS AMENDED

SECTION 7(a) - Consultation/Conference

- Requires:
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